

Amendments to the Claims

The following listing of claims replaces all prior versions of the claims and all prior listings of the claims in the present application.

1-30. (canceled)

31. (new) A pneumatic tyre, comprising:
a pair of axially-spaced-apart annular reinforcing elements;
a carcass structure;
a pair of bead fillers;
at least one flipper;
a tread band;
a belt structure; and
at least one pair of sidewalls;
wherein the carcass structure comprises at least one carcass ply,
wherein the carcass structure extends between the annular reinforcing elements,
wherein the carcass structure is secured at axially opposite end portions to respective annular reinforcing elements,
wherein each end portion is turned up around the respective annular reinforcing element,
wherein each bead filler is disposed radially outward of the respective annular reinforcing element;

wherein the at least one flipper at least partially envelops an associated annular reinforcing element and bead filler,

wherein the at least one flipper comprises a plurality of first elongated reinforcing elements that are substantially parallel to each other,

wherein the tread band extends circumferentially around the carcass structure,

wherein the belt structure is disposed circumferentially between the carcass structure and the tread band,

wherein the at least one pair of sidewalls is applied to the carcass structure in axially opposite positions, and

wherein the first elongated reinforcing elements comprise at least one preformed metallic element having a diameter greater than or equal to 0.05 mm and less than or equal to 0.25 mm.

32. (new) The tyre of claim 31, wherein each of the first elongated reinforcing elements is preformed.

33. (new) The tyre of claim 31, wherein the at least one metallic element is preformed with a deformation of a coplanar type.

34. (new) The tyre of claim 33, wherein the at least one metallic element has an undulating-type form.

35. (new) The tyre of claim 34, wherein the undulating-type form is a substantially sinusoidal form.

36. (new) The tyre of claim 35, wherein the substantially sinusoidal form has a wavelength greater than or equal to 2.5 mm and less than or equal to 30 mm.

37. (new) The tyre of claim 35, wherein the substantially sinusoidal form has a wave amplitude greater than or equal to 0.12 mm and less than or equal to 1 mm.

38. (new) The tyre of claim 34, wherein the undulating-type form is a helical-type form.

39. (new) The tyre of claim 31, wherein the at least one flipper further comprises:
a central portion; and

two leg portions;

wherein the central portion contacts the associated annular reinforcing element,

wherein the leg portions extend from respective ends of the central portion, and

wherein the leg portions engage the associated bead filler.

40. (new) The tyre of claim 31, wherein ends of the at least one flipper are offset from each other.

41. (new) The tyre of claim 31, further comprising:

a chafer;

wherein the chafer comprises a plurality of second elongated reinforcing elements,

wherein the second elongated reinforcing elements are metallic, and

wherein the second elongated reinforcing elements are substantially parallel to each other.

42. (new) The tyre of claim 41, wherein the second elongated reinforcing elements comprise at least one preformed element having a diameter greater than or equal to 0.05 mm and less than or equal to 0.25 mm.

43. (new) The tyre of claim 41, wherein each of the second elongated reinforcing elements is preformed.

44. (new) The tyre of claim 42, wherein the at least one element is preformed with a deformation of a coplanar type.

45. (new) The tyre of claim 42, wherein the at least one element has an undulating-type form.

46. (new) The tyre of claim 45, wherein the undulating-type form is a substantially sinusoidal form.

47. (new) The tyre of claim 46, wherein the substantially sinusoidal form has a wavelength greater than or equal to 2.5 mm and less than or equal to 30 mm.

48. (new) The tyre of claim 46, wherein the substantially sinusoidal form has a wave amplitude greater than or equal to 0.12 mm and less than or equal to 1 mm.

49. (new) The tyre of claim 45, wherein the undulating-type form is a helical-type form.

50. (new) The tyre of claim 41, wherein the chafer is disposed between the at least one flipper and the at least one carcass ply.

51. (new) The tyre of claim 41, wherein the chafer is disposed axially external with respect to the at least one carcass ply.

52. (new) The tyre of claim 41, wherein the chafer is disposed axially internal with respect to the at least one carcass ply.

53. (new) The tyre of claim 41, wherein the chafer is disposed between two carcass plies.

54. (new) The tyre of claim 31, wherein the at least one metallic element comprises: steel;

aluminum; or

an aluminum alloy.

55. (new) The tyre of claim 31, wherein the at least one metallic element comprises a coating, and

wherein the coating comprises:

brass;

zinc;

zinc/manganese alloys;

zinc/cobalt alloys; or

zinc/cobalt/manganese alloys.

56. (new) The tyre of claim 31, wherein the first elongated reinforcing elements comprise greater than or equal to two preformed metallic elements and less than or equal to five preformed metallic elements.

57. (new) The tyre of claim 31, wherein the first elongated reinforcing elements comprise two or more preformed metallic elements,

wherein the two or more preformed metallic elements are stranded together, and

wherein a stranding pitch of the two or more preformed metallic elements is greater than or equal to 2.5 mm and less than or equal to 25 mm.

58. (new) The tyre of claim 31, wherein a density of the first elongated reinforcing elements is greater than or equal to 40 cords/dm and less than or equal to 160 cords/dm.

59. (new) The tyre of claim 42, wherein the at least one preformed element comprises:
steel;
aluminum; or
an aluminum alloy.

60. (new) The tyre of claim 42, wherein the at least one preformed element comprises a coating, and

wherein the coating comprises:

brass;
zinc;
zinc/manganese alloys;
zinc/cobalt alloys; or
zinc/cobalt/manganese alloys.

61. (new) The tyre of claim 42, wherein the second elongated reinforcing elements comprise greater than or equal to two preformed elements and less than or equal to five preformed metallic elements.

62. (new) The tyre of claim 42, wherein the second elongated reinforcing elements comprise two or more preformed elements,
wherein the two or more preformed elements are stranded together, and
wherein a stranding pitch of the two or more preformed elements is greater than or equal to 2.5 mm and less than or equal to 25 mm.

63. (new) The tyre of claim 41, wherein a density of the second elongated reinforcing elements is greater than or equal to 40 cords/dm and less than or equal to 160 cords/dm.

64. (new) The tyre of claim 31, wherein the first elongated reinforcing elements are disposed at an angle, relative to a radial plane of the tyre, greater than or equal to 15° and less than or equal to 60°.

65. (new) The tyre of claim 41, wherein the second elongated reinforcing elements are disposed at an angle, relative to a radial plane of the tyre, greater than or equal to 15° and less than or equal to 70°.